

Physical processes and modeling of plasma deposition and hardening of coatings-switched electrical parameters

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Abstract

© Published under licence by IOP Publishing Ltd. This paper presents the results of simulation of plasma deposition and hardening of coatings in modulating the electrical parameters. Mathematical models are based on physical models of gas-dynamic mechanisms more dynamic and thermal processes of the plasma jet. As an example the modeling of dynamic processes of heterogeneous plasma jet, modulated current pulses indirect arc plasma torch.

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